

UNITED STATES PATENT AND TRADEMARK OFFICE

A

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/746,977	12/20/2000	Anjur Sundaresan Krishnakumar	Krishnakumar 14-15	8366
23506	7590 04/28/2004		EXAM	INER
GARDNER GROFF, P.C.			VINCENT, DAVID ROBERT	
PAPER MILL VILLAGE, BUILDING 23 600 VILLAGE TRACE SUITE 300 MARIETTA, GA 30067		23	ART UNIT	PAPER NUMBER
			2661	
			DATE MAILED: 04/28/200	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/746,977	KRISHNAKUMAR ET AL.				
Office Action Summary	Examiner	Art Unit				
	David R Vincent	2661				
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicatif the period for reply specified above is less than thirty (30) day if NO period for reply is specified above, the maximum statutory Failure to reply within the set or extended period for reply will, any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a rotion. ys, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MON by statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed or	1 .					
, — ,	This action is non-final.					
<i>7</i>						
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-32</u> is/are pending in the appli	cation.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) 1-5 and 24-26 is/are rejected.						
7) Claim(s) 6:23 27-32 is/are objected to.						
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Ex	caminer.					
	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection	· · · · · · · · · · · · · · · · · · ·	· ·				
Replacement drawing sheet(s) including the	correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by	the Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for f a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International I	uments have been received. uments have been received in A ne priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
* See the attached detailed Office action for	i a not or the certified copies not	ieceiveu.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-9	Paper No(s	s)/Mail Date				
 Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date <u>3</u>. 	/SB/08) 5) Notice of Ir 6) Other:	nformal Patent Application (PTO-152) —·				

Application/Control Number: 09/746,977

Art Unit: 2661

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1-2, 4-5, 24-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Sobrinho et al. (Admitted prior art and IEEE article of record).

Sobrinho discloses a central node and a plurality of APS (see article or applicant's spec. pg. 2, line 20-pg. 3, line 9) wherein the central node (CN) is a point of entry into a wired network (article: pg. 172-173 discloses the WLANs and wired LANs, and applicant's spec. pg. 2, line 20-pg. 3, line 9) logic to enable access instants (e.g., article: instants of time, basic operation, pg. 174) to be automatically re-aligned in response to changes in bandwidth (applicant's spec. pg. 2, line 20-pg. 3, line 9, especially pg. 3, lines 7-9; article: basic operation, bandwidth control sections), as specified in claims 1 and 24; wireless networks (applicant's spec. pg. 2, line 20-pg. 3, line 9; article: pg. 172), as specified in claims 2 and 25; and determining whether channel has been idle, entering a

Application/Control Number: 09/746,977 Page 3

Art Unit: 2661

contention state (period of transmitting black bursts) and entering observation state (article: basic operation, pgs. 174-175; Fig. 1), as specified in claim 4.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 3 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sobrinho as set forth above in view of Olin (US 2004/0005878).

However, Sobrinho fails to mention that the network that the CN is attached to can be referred to as a backhaul network, as specified in claim 3, and 26.

The term back haul was not further defined and Olin teaches a backhaul (backbone, Fig. 1 and respective disclosure) network connected to a CN.

It would have been obvious to connect the CN to a backhaul network because the communication which takes place between on AP and another or between one AP and an access provider is

Art Unit: 2661

generally of a much higher volume that what takes place between the mobiles. The APs have to grant access to the networks and locate and/or register mobiles and also send data across other networks such as a PSTN, POTS, or the Internet. Connecting a CN of Sobrinho to a PSTN, or an access provider would allow for e.g., international calls to be placed and for the collected data at the AP to be bundled and transmitted at a higher rate.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David R Vincent whose telephone number is 703 305 4957. The examiner can normally be reached on M-TH.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Olms can be reached on 703 305 4703. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/746,977 Page 5

Art Unit: 2661

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David R Vincent Primary Examiner Art Unit 2661

April 26, 2004